



PCT

REC'D 26 APR 2004

RAPPORT D'EXAMEN PRELIMINAIRE INTERNATIONAL PCT

(article 36 et règle 70 du PCT)

19 JAN 2005

Référence du dossier du déposant ou du mandataire	POUR SUITE A DONNER voir la notification de transmission du rapport d'examen préliminaire international (formulaire PCT/PEA/416)	
Demande internationale No. PCT/FR 03/02113	Date du dépôt international (jour/mois/année) 08.07.2003	Date de priorité (jour/mois/année) 17.07.2002
Classification internationale des brevets (CIB) ou à la fois classification nationale et CIB F16D41/20		
Déposant AKTIEBOLAGET SKF ET AL.		
<p>1. Le présent rapport d'examen préliminaire international, établi par l'administration chargée de l'examen préliminaire international, est transmis au déposant conformément à l'article 36.</p> <p>2. Ce RAPPORT comprend 4 feuilles, y compris la présente feuille de couverture.</p> <p><input type="checkbox"/> Il est accompagné d'ANNEXES, c'est-à-dire de feuilles de la description, des revendications ou des dessins qui ont été modifiées et qui servent de base au présent rapport ou de feuilles contenant des rectifications faites auprès de l'administration chargée de l'examen préliminaire international (voir la règle 70.16 et l'instruction 607 des Instructions administratives du PCT).</p> <p>Ces annexes comprennent feuilles.</p> <p>3. Le présent rapport contient des indications et les pages correspondantes relatives aux points suivants :</p> <ul style="list-style-type: none">I <input checked="" type="checkbox"/> Base de l'opinionII <input type="checkbox"/> PrioritéIII <input type="checkbox"/> Absence de formulation d'opinion quant à la nouveauté, l'activité inventive et la possibilité d'application industrielleIV <input type="checkbox"/> Absence d'unité de l'inventionV <input checked="" type="checkbox"/> Déclaration motivée selon la règle 66.2(a)(ii) quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclarationVI <input type="checkbox"/> Certains documents citésVII <input type="checkbox"/> Irrégularités dans la demande internationaleVIII <input type="checkbox"/> Observations relatives à la demande internationale		
Date de présentation de la demande d'examen préliminaire internationale 11.02.2004	Date d'achèvement du présent rapport 26.04.2004	
Nom et adresse postale de l'administration chargée de l'examen préliminaire international  Office européen des brevets - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tél. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Fonctionnaire autorisé J. Giráldez Sánchez N° de téléphone +31 70 340-3488 	

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**RAPPORT D'EXAMEN
PRÉLIMINAIRE INTERNATIONAL**

Demande internationale n°

PCT/FR 03/02113

5. ☐ Le présent rapport a été formulé abstraction faite (de certaines) des modifications, qui ont été considérées comme allant au-delà de l'exposé de l'invention tel qu'il a été déposé, comme il est indiqué ci-après (règle 70.2(c)) :

(Toute feuille de remplacement comportant des modifications de cette nature doit être indiquée au point 1 et annexée au présent rapport.)

6. Observations complémentaires, le cas échéant :

V. Déclaration motivée selon l'article 35(2) quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclaration

- | | | | |
|--|------|----------------|------|
| 1. Déclaration | | | |
| Nouveauté | Oui: | Revendications | 1-13 |
| | Non: | Revendications | |
| Activité inventive | Oui: | Revendications | 1-13 |
| | Non: | Revendications | |
| Possibilité d'application industrielle | Oui: | Revendications | 1-13 |
| | Non: | Revendications | |

2. Citations et explications

voir feuille séparée

Concernant le point V

Déclaration motivée selon l'article 35(2) quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclaration

Le document US 4 046 238 A , qui est considéré comme l'état de la technique le plus proche, décrit un dispositif de palier à roue libre comprenant un roulement muni d'une pluralité d'éléments roulants et d'une cage de maintien des éléments roulants, et une roue libre munie d'un ressort de roue libre, ledit ressort comprenant une première portion coopérant avec la cage et une deuxième portion coopérant avec un élément extérieur et/ou intérieur.

Le dispositif de palier de la revendication 1 diffère de l'état de la technique en ce que ledit élément est solidarisée directement ou indirectement avec un corps sur lequel roulent les éléments roulants.

L'objet de la revendication 1 est donc nouveau (article 33(2) PCT).

Le problème que la présente invention se propose de résoudre peut donc être considéré comme réduire l'usure des paliers à roue libre et accroître sa durée de vie.

La solution de ce problème proposée dans la revendication 1 de la présente demande est considérée comme impliquant une activité inventive (article 33(3) PCT).

Les revendications 2-13 dépendent de la revendication 1 et satisfont donc également, en tant que telles, aux conditions requises par le PCT en ce qui concerne la nouveauté et l'activité inventive.

Translation

PATENT COOPERATION TREATY

PCT/FR2003/002113



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

18 JAN 2004

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference B02/2123QT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/FR2003/002113	International filing date (day/month/year) 08 juillet 2003 (08.07.2003)	Priority date (day/month/year) 17 juillet 2002 (17.07.2002)
International Patent Classification (IPC) or national classification and IPC F16D 41/20		
Applicant AKTIEBOLAGET SKF		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 11 février 2004 (11.02.2004)	Date of completion of this report 26 April 2004 (26.04.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FR2003/002113

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
 pages _____ 1-11 _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the claims:
 pages _____ 1-13 _____, as originally filed
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the drawings:
 pages _____ 1/9-9/9 _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-13	YES
	Claims		NO
Inventive step (IS)	Claims	1-13	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-13	YES
	Claims		NO

2. Citations and explanations

Document US 4 046 238 A, which is considered the closest prior art, describes a free-wheeling bearing device including a ball bearing provided with a plurality of balls and a raceway for holding said balls, and a free roller provided with a free roller spring that includes a first portion engaging the raceway and a second portion engaging an outer and/or inner member.

The bearing device according to claim 1 differs from the prior art in that said member is directly or indirectly secured to a body on which said balls roll.

Therefore, the subject matter of claim 1 is novel (PCT Article 33(2)).

The problem that the present invention aims to solve can therefore be considered to be that of reducing wear on free wheeling bearings and of increasing the life thereof.

The solution to said problem, as proposed in claim 1 of the present application, is considered to involve an inventive step (PCT Article 33(3)).

Claims 2-13 are dependent on claim 1, and therefore also

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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meet, as such, the PCT requirements of novelty and
inventive step.